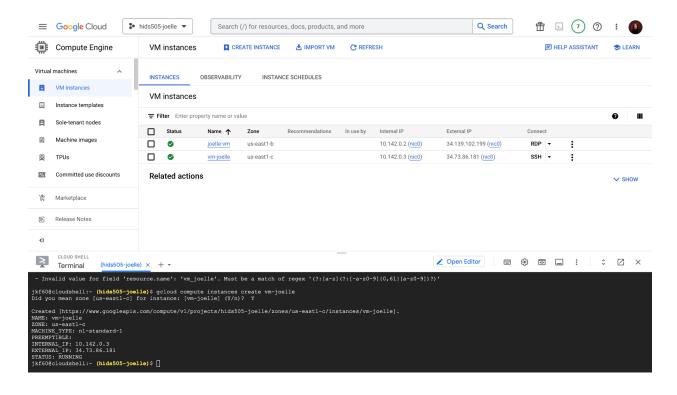
Joelle Fitzgerald

HIDS 505 Assignment 4 - Create a Virtual Machine and a public Web server

- 1. In the Cloud Shell, use gcloud to create a new virtual machine instance from the command line: gcloud compute instances create "vm_firstname" (all lower case)
 - a. I created 'vm-joelle' in the shell command line (see below). The External IP in the screenshot below is different from the end result External IP because I originally downloaded NGIVX in the shell command line terminal and not with SSH and I had to delete the created vm and restart. However, the initial step of creating 'vm-joelle' is the same. Also, the use of "_" is not allowed when creating a VM instance in the shell command line terminal.



2. Installing NGIVX web server and getting root access

```
    DOWNLOAD FILE  
    DOWNLOAD FILE  

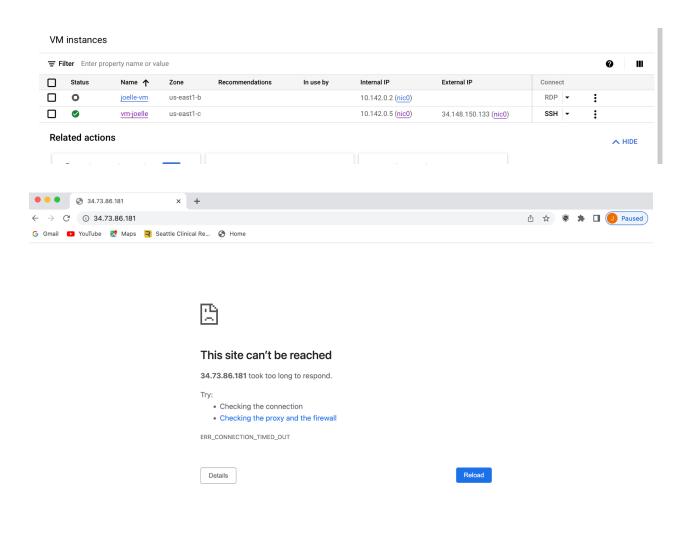
                         SSH-in-browser
                     inux vm-joelle 5.10.0-21-cloud-amd64 #1 SMP Debian 5.10.162-1 (2023-01-21) x86_64
                 The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.
          Individual files in /usr/share/doc/*/copyright.

Debian CNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law SOLUTELY NO WARRANTY, to the extent permitted by applicable law SOLUTELY NO WARRANTY, to the extent permitted by applicable law SOLUTELY NO WARRANTY, to the extent permitted by applicable law SOLUTELY SOLUTE PROPERTY OF THE PROPERTY OF THE
Freparing to unpack .../23-libnginx-mod-http-xslt-filter 1.18.0-6.1+debliu3_amd64.deb ...
Unpacking libnginx-mod-http-xslt-filter (1.18.0-6.1+debliu3) ...
Selecting previously unselected package libnginx-mod-mail ...
Freparing to unpack .../24-libnginx-mod-mail (1.18.0-6.1+debliu3) ...
Selecting previously unselected package libnginx-mod-mail ...
Unpacking libnginx-mod-mail (1.18.0-6.1+debliu3) ...
Selecting previously unselected package libnginx-mod-stream.

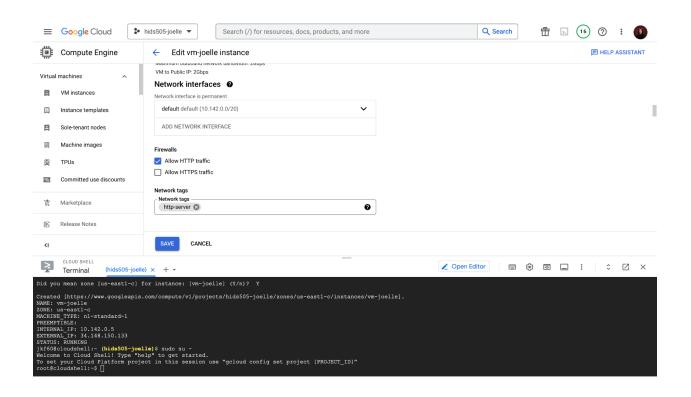
Unpacking libnginx-mod-stream (1.18.0-6.1+debliu3) ...
Selecting previously unselected package libnginx-mod-stream.

Unpacking libnginx-mod-stream (1.18.0-6.1+debliu3) ...
Selecting previously unselected package glinny-core.
Preparing to unpack .../26-libnginx-mod-stream-gooip, 1.18.0-6.1+debliu3 ...
Selecting previously unselected package glinx-core.
Preparing to unpack .../27-mginx-core | 1.18.0-6.1+debliu3 ...
Selecting previously unselected package glinx-core.
Selecting previously unselected package glinx-core.
Preparing to unpack .../28-mginx | 1.18.0-6.1+debliu3 ...
Selecting unpack .../28-mginx | 1.18.0-6.1+debliu3 ...
Selecting unpack .../28-mginx | 1.18.0-6.1+debliu3 ...
Selecting unpack .../28-mginx | 1.18.0-6.1+debliu3 ...
Setting up libndelpackage unpack (1.14-2) ...
Setting up libndelpackage unpack (1.14-2) ...
Setting up libndelpackage unpack (1.14-2) ...
Setting up libndelpackage unpack (1.18.0-6.1+debliu3) ...
Setting up libndelpackage (1.18.0-6.1+debliu3) ...
Setting up libndelpackage (1.18.0-6.1+debliu3) ...
Setting up libndelpackage (1.18.0-6.1+debliu3) ...
Setting up libnginx-mod-stream 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ± UPLOAD FILE ± DOWNLOAD FILE ■ 🖶 🚓
                     SSH-in-browser
```

3. External IP test: External IP 34.148.150.133



4. Allowing http traffic





Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to $\underline{nginx.org.}$ Commercial support is available at $\underline{nginx.com.}$

Thank you for using nginx.